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CONTENTS

	Page
Introduction and Summary	1
Acknowledgments	1
Coal Research Organizations:	
Australia	2
Austria	3
Belgium	4
Bulgaria	5
Canada	5
China, Mainland	6
Colombia	12
Czechoslovakia	12
Finland	14
Formosa	14
France	14
Germany, East	16
Germany, West	17
Hungary	22
India	23
Ireland	24
Italy	24
Japan	26
Mexico	31
Netherlands	32
New Zealand	32
Norway	33
Peru	33
Poland	34
Portugal	36
Rumania	37
South Africa	37
Spain	39
Sweden	39
Switzerland	39
Turkey	40
Union of Soviet Socialist Republics	40
United Kingdom	51
United States	59
Yugoslavia	63

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COAL RESEARCH ORGANIZATIONS: THEIR ACTIVITIES AND PUBLICATIONS[1]

by

Mary S. Esfandiary[2]

INTRODUCTION AND SUMMARY

This list of organizations that conduct research and development programs on coal has been compiled by the Bureau of Mines with the thought that such a directory may provide a useful guide to worldwide research efforts in the areas designated and may facilitate communication between organizations with similar interests. This list includes government, university, private, and commercial organizations. Many of these groups are conducting comparatively modest but often particularly interesting or specialized investigations. The areas of investigation have been defined in a broad manner--these include analysis and constitution, mining and geology, preparation, combustion, briquetting, high- and low-temperature carbonization, gasification, hydrogenation, Fischer-Tropsch, and health and safety. In some instances such information is not available, but the names of the organizations themselves often indicate immediate areas of interest. Special publications issued by and describing the work of each organization have been cited, when known; almost all of the organizations also publish results of their investigations in the technical press. Several foreign technical and trade publications that include such information and are not published directly by any of the organizations listed are cited in the pages following the list of organizations in each country.

This list is not complete. Information that would improve coverage and/or accuracy will be welcomed by the Bureau of Mines.

ACKNOWLEDGMENTS

Thanks are due to the many people who contributed to this list and, particularly, to Daisaku Miwa, Director, Research and Information Bureau, The Science and Technics Agency, of Japan, Randolph M. Monteith, mining engineer in Colombia, and Richard N. Spencer, technical advisor, in Peru.

1/ Manuscript completed May 1960.

2/ Chemist, Branch of Bituminous Coal Research, Bureau of Mines, U.S. Department of the Interior, Washington, D. C.

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COAL RESEARCH ORGANIZATIONS

Australia

Name	Activities
AERONAUTICAL RESEARCH LABORATORIES, Research sponsored by Department of National Development, Division of Fuel, Melbourne, Victoria. PUBLICATIONS: Annual Report.	Use of coal (brown) as a fuel for gas turbines.
AUSTRALIAN COAL ASSOCIATION (Research), LTD., Kembla Building, 58 Margaret Street, Sydney, New South Wales, and Estate Chambers, Creek Street, Brisbane, Queensland. PUBLICATIONS: Monthly Bulletin; Annual Report (Report of Directors and Annual Accounts).	Sampling, analysis, mining, preparation, combustion, utilization (turbine, etc.), air pollution control, safety.
COAL RESEARCH, LTD., Box 387, G.P.O., Sydney, New South Wales.	
COMMONWEALTH SCIENTIFIC & INDUSTRIAL RESEARCH ORGANIZATION (C.S.I.R.O.), Coal Research Section (Laboratories located at Delhi Rd., North Ryde, Sydney, N.S.W.), P.O. Box 3, Chatswood, New South Wales. PUBLICATIONS: "Coal Research in C.S.I.R.O." (quarterly); "Coal Research Section Technical Communications"; "CRS Location Reports"; Annual Report; "CRS Miscellaneous Reports"; "C.S.I.R.O. Abstracts" (monthly, includes abstracts of coal research papers published).	Analysis, constitution, preparation, combustion, carbonization, gasification.
GAS & FUEL CORPORATION OF VICTORIA, 196 Flinders Street, Box 388D, G.P.O., Melbourne, Victoria.	Production of char for metallurgical use from briquettes, gasification of brown coal (extension of work at University of Melbourne).

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Australia (Con.)

Name	Activities
GOVERNMENT CHEMICAL LABORATORIES, Fuel Technology Division, Adelaide Terrace, Perth, Western Australia. PUBLICATIONS: Annual Report.	Sampling, analysis, combustion, carbonization, briquetting.
SOUTH AUSTRALIA DEPARTMENT OF MINES, 169 Rundle Street (or Box 38, Rundle Street P.O.), Adelaide, South Australia. PUBLICATIONS: Annual Report; Bulletins; Reports of Investigations; "Mining Review" (semi-annually).	Mining and geology (one coalfield only).
THE UNIVERSITY OF MELBOURNE, Brown Coal Research Laboratory, Melbourne, N.3, Victoria.	Carbonization and briquetting.
THE UNIVERSITY OF SYDNEY, Department of Mining Engineering, Department of Geology and Geophysics, Sydney, New South Wales. PUBLICATIONS: Master's theses; summary in "Research and Scholarship" (published annually by the University).	Analysis, constitution, mining, carbonization, preparation (sulfur removal).
UNIVERSITY OF NEW SOUTH WALES, Kensington, Sydney, New South Wales.	Low-temperature carbonization (fluidized).
WESTERN AUSTRALIA DEPARTMENT OF MINES, Government Chemical Laboratories, Fuel Technology Division, Perth, Western Australia. PUBLICATIONS: Annual Report included in Annual Report for the Laboratories.	Sampling, analysis, combustion, briquetting.

COAL RESEARCH ORGANIZATIONS

Austria

ÖSTERREICHISCHE ALPINE-MONTANGESELLSCHAFT, Friedrichstrasse 4, Vienna I.	Preparation (drying), briquetting.

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Austria (Con.)

Name	Activities
ÖSTERREICHISCHE INDUSTRIE- und BERGBAUVERWALTUNG G.m.b.H., Kantgasse 1, Vienna I.	Analysis, fuel efficiency (brown coal).

COAL RESEARCH ORGANIZATIONS

Belgium

ASSOCIATION MÉTALLURGIQUE POUR LA FABRICATION DU COKE S.A., Chaussée de Termonde, 103B, Willebroek.	Carbonization.
EUROPEAN RESEARCH ASSOCIATES, 95 rue Gatti de Gamond, Bruxelles.	Analysis, constitution.
FACULTÉ POLYTECHNIQUE DE MONS, Bd. Sainctellette, 112, Mons. PUBLICATIONS: Papers in "Bulletin Technique de l'Association des Ingénieurs de Mons."	Analysis, geology, mining, preparation.
INICHAR (INSTITUT NATIONAL DE L'INDUSTRIE CHARBONNIÈRE), 7 Boulevard Frère-Orban, Liège. PUBLICATIONS: Technical Bulletins "Mines"; "Houille et Dérivés"; "Preparation des Minerais"; "Annales des Mines de Belgique" (monthly journal).	Analysis, constitution, mining, preparation, combustion, carbonization, health and safety.
INSTITUT NATIONAL DES MINES, Pâturages. PUBLICATIONS: Annual Report.	Safety.
IRSIA (INSTITUT POUR L'ENCOURAGEMENT DE LA RECHERCHE SCIENTIFIQUE DANS L'INDUSTRIE ET L'AGRICULTURE), 53 rue de la Concorde, Bruxelles. PUBLICATIONS: Annual Report.	Gasification (finances research).
LABORATOIRE MEURICE, rue Simonis, 14a, Bruxelles 5.	Analysis.

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Belgium (Con.)

Name	Activities
RIJKSUNIVERSITEIT te GENT, Schools of Engineering, Mines and Technology, Voldersstraat 9, Ghent.	
SOCIÉTÉ ANONYME CARBOCHIMIQUE, Tertre.	Petrography.
SOCIÉTÉ COOPERATIVE DE GAZEIFICATION SOUTERRAINE (SOCOGAZ), 36 rue Veydt, Bruxelles. PUBLICATIONS: Annual Report; special reports.	Participated in underground gasification program.
SOCIÉTÉ GÉNÉRALE DES MINERAIS (Technical Department), 31 rue du Marais, Bruxelles. PUBLICATIONS: "Notes" (internal reports on projects).	Preparation (including evaluating available and developing new equipment).
UNIVERSITÉ DE LIÈGE, Liège.	Constitution, petrology.
UNIVERSITÉ DE LOUVAIN, Louvain.	Preparation.

COAL RESEARCH ORGANIZATIONS

Bulgaria

MIMNO-GÉOLOŽKI INSTITUT (Institute of Mines and Geology), 2, boul. Dragan Cankov, Sofia.	Mining, geology.
THE SCIENTIFIC RESEARCH INSTITUTE FOR TECHNICAL RESEARCH INTO FUEL, 5, Oporska Rieka, Sofia.	Analysis, constitution, preparation, combustion, high- and low-temperature carbonization, gasification.

Canada

BRITISH COLUMBIA DEPARTMENT OF MINES, Victoria, British Columbia. PUBLICATIONS: Annual Report.	Mining, health and safety.

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Canada (Con.)

Name	Activities
DEPARTMENT OF MINES AND TECHNICAL SURVEYS, Mines Branch, Fuels Division, 562 Booth Street, Ottawa, Ontario. PUBLICATIONS: Reports and map series No. 1, 1902--; Memorandum series; Bulletins; technical papers; Annual Reports (which include list of publications); "Bibliography of Published and Unpublished Reports of Investigations and Research on Fuels in Canada, 1950 to 1955."	Mining, preparation, combustion, carbonization, briquetting, health and safety.
McGILL UNIVERSITY, Faculty of Engineering, Montreal, Quebec.	Coal-burning gas turbines.
RESEARCH COUNCIL OF ALBERTA, 87th Avenue and 114th Street, Edmonton, Alberta. PUBLICATIONS: "Research Council of Alberta, Annual Report" (which includes list of publications of the Council); special reports.	Analysis, constitution, carbonization, briquetting.

COAL RESEARCH ORGANIZATIONS

China, Mainland

Government Organizations

Central or Parent Organs: MINISTRY OF COAL INDUSTRY. MINISTRY OF GEOLOGY. MINISTRY OF METALLURGICAL INDUSTRY. MINISTRY OF PETROLEUM INDUSTRY.	Mining, geology, carbonization, gasification, hydrogenation, Fischer-Tropsch, health and safety (at various institutes and plants).
Departments or Regional Organizations: CENTRAL BUREAU FOR GEOLOGICAL EXPLORATION, Peiping, Hopeh Province. FENGFENG COAL MINE BASIC CONSTRUCTION ADMINISTRATION, YANG-CHU-HO SHAFT CONSTRUCTION OFFICE, Fengfeng, Hopeh Province.	Mining investigations.

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China, Mainland (Con.)

Government Organizations

Departments or Regional Organizations (Con.):

Name	Activities
FUSHUN COAL MINE BASIC CONSTRUCTION ADMINISTRATION, Fushun, Liaoning Province.	
HONAN PROVINCE COAL INDUSTRY ADMINISTRATION, Chengchou, Honan Province (most provinces have such an organization).	
HSIN-WEN SHAFT CONSTRUCTION OFFICE (address not available).	
HSUCHOW COAL MINING BASIC CONSTRUCTION ADMINISTRATION, SHAFT CONSTRUCTION OFFICE, Hsuchow, Kiangsu Province.	
KAILAN COAL MINE BASIC CONSTRUCTION ADMINISTRATION, SHAFT CONSTRUCTION OFFICE, Kailan Area, Hopeh Province.	
P'ING-AN SHAFT CONSTRUCTION OFFICE (address not available).	
P'ING-TING-SHAN BASIC CONSTRUCTION ADMINISTRATION, P'ing-Ting-Shan, Hopeh Province.	
SIAN COAL FIELD GEOLOGICAL EXPLORATION, Sian, Liaoning Province (one of many regional offices).	
TUNG-PEI BASIC CONSTRUCTION NO. 1 ADMINISTRATION, HSIN-CHU SHAFT CONSTRUCTION OFFICE, Fu-hsin, Liaoning Province.	
TUNG-PEI BASIC CONSTRUCTION NO. 2 ADMINISTRATION, TUNG-HUA SHAFT CONSTRUCTION OFFICE, Tung-Lua, Liaoning Province.	

Research and Design Institutes

CHANGSHA MINING TECHNOLOGY RESEARCH INSTITUTE, Changsha, Hunan Province.	
CHINESE ACADEMY OF SCIENCE (or ACADEMIA SINICA), COAL RESEARCH INSTITUTE, Peiping, Hopeh Province.	Analysis, constitution, preparation, carbonization, gasification, hydrogenation, Fischer-Tropsch.

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China, Mainland (Con.)

Research and Design Institutes

Name	Activities
CHINESE ACADEMY OF SCIENCE, PETROLEUM RESEARCH INSTITUTE, Peiping, Hopeh Province.	Low-temperature carbonization, hydrogenation, Fischer-Tropsch.
FUSHUN COAL TECHNOLOGY RESEARCH INSTITUTE, Fushun, Liaoning Province.	Mining, geology, health and safety.
FUSHUN PETROLEUM RESEARCH INSTITUTE, Fushun, Liaoning Province.	Carbonization, hydrogenation.
HANKOW COAL MINE DESIGN INSTITUTE, Wuhan, Hupeh Province (may be same as Wuhan Coal Mine Design Institute).	
HSI-AN COAL MINE DESIGN INSTITUTE, Hsi-an, Liaoning Province (specializes in thick coal seams).	Analysis.
MINISTRY OF GEOLOGY, INSTITUTE OF MINERAL MATERIALS (address not available).	Preparation.
MINISTRY OF COAL INDUSTRY, PEKING INSTITUTE OF COAL SCIENCE, Department of Coal Chemistry, Peiping, Hopeh Province.	Analysis.
MINISTRY OF PETROLEUM INDUSTRY, RESEARCH INSTITUTE OF PETROLEUM SCIENCE, Peiping, Hopeh Province.	Low-temperature carbonization, Fischer-Tropsch.
PEI-CHING COAL MINE DESIGN INSTITUTE, Peiping, Hopeh Province.	
PEI-CHING COAL PREPARATION INSTITUTE, Peiping, Hopeh Province.	
PEI-CHING REFINING AND EXTRACTION RESEARCH INSTITUTE Peiping, Hopeh Province.	Low-temperature carbonization (includes work on low-temperature coal tar processing).
SHENYANG COAL MINE DESIGN INSTITUTE (probably emphasis on opencut operations), Shenyang, Liaoning Province.	

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China, Mainland (Con.)

Research and Design Institutes

Name	Activities
TANGSHAN COAL MINE DESIGN INSTITUTE, Tangshan, Hopeh Province.	
TANGSHAN COAL TECHNOLOGY INSTITUTE, Tangshan, Hopeh Province.	Mining (hydraulic), preparation.

Plants and Experiment Stations

ANSHAN COKE PLANT (Affiliated with Anshan Iron & Steel Company), Anshan Area, Liaoning Province.	Carbonization.
CHANGCHUN No. 1 MOTOR CAR MANUFACTURING PLANT, Changchun, Liaoning Province.	Gasification.
CHICHIHAR HAND INDUSTRY COOPERATIVE OIL REFINING PLANT, Chichihar, Kirin Province.	Carbonization, hydrogenation.
KWANGTUNG HOPU LOW-TEMPERATURE CARBONIZATION PLANT, Hopu, Kuang-Tung Province.	Low-temperature carbonization.
MINISTRY OF PETROLEUM INDUSTRY EXPERIMENTAL STATION FOR CARBONIZATION OF COAL IN PILES, Peiping, Hopeh Province.	Carbonization.
PEICHUAN CARBONIZATION PLANT, Pei-ch'uan, Szechwan Province.	Carbonization, Fischer-Tropsch.
PETROLEUM NO. 5 PLANT RESEARCH STATION (address not available).	Low-temperature carbonization, gasification.
PETROLEUM NO. 6 PLANT RESEARCH STATION (address not available).	Carbonization.
PINGHSIANG COAL PREPARATION PLANT, Pinghsiang, Kiangsi Province.	Preparation, carbonization.
SHANGHAI PETROLEUM REFINING PLANT, Shanghai, Kiangsu Province.	Carbonization.
SHANTUNG TZUPO COAL MINING ADMINISTRATION HSIHO COKE PLANT, Tzupo, Shantung Province.	Preparation.

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China, Mainland (Con.)

Plants and Experiment Stations

Name	Activities
SZECHUAN FENGCHIEH HSIEN SMALL STEEL PLANTS, Fengchieh, Szechuan Province.	Experiments on the use of anthracite for iron smelting.
YUAN-PAO-SHAN COAL MINE PLANT, Chih-feng, Hopeh Province.	Low- and high-temperature carbonization, briquetting (brown coal).
YUNNAN FUYUAN COKE PLANT, Fu-Yuan, Yunnan Province.	Low-temperature carbonization.

Educational Institutions

CHI-HSI COAL SCHOOL, Chi-hsi, Liaoning Province.	
CHINA COAL MINING COLLEGE (established in September 1958), Peiping, Hopeh Province.	
CHUNG-NAN MINING AND METALLURGICAL COLLEGE, Wuhan, Hupeh Province.	
HO-FEI MINING INDUSTRY COLLEGE, Ho-fei, Anhwei Province.	Mining.
HUAI-NAN COAL MINING SCHOOL, Huai-nan, Anhwei Province.	
PEI-CHING COAL TECHNOLOGY COLLEGE, Peiping, Hopeh Province.	Coal technology (general).
PEI-CHING MINING COLLEGE, Peiping, Hopeh Province.	Mining, preparation.
PEI-CHING PETROLEUM COLLEGE, Peiping, Hopeh Province.	Fischer-Tropsch.
PEIYANG UNIVERSITY (may have been reorganized under new name), Peiping, Hopeh Province.	Mining.
SIAN SCHOOL OF MINING (established in September 1958), Sian, Liaoning Province.	

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China, Mainland (Con.)

Educational Institutions

Name	Activities
TANGSHAN CHIAOTUNG UNIVERSITY (probably has been reorganized under the name of Tangshan Coal Technology Institute), Tangshan, Hopeh Province.	Mining, carbonization.
TA-T'UNG COAL MINING SCHOOL, Ta-t'ung, Shansi Province.	
TUNG-PEI ENGINEERING COLLEGE, Shenyang, Liaoning Province.	Mining, health and safety.

Other Organizations

CHENGCHOW COAL MINING EQUIPMENT INSTALLATION COMPANY TECHNOLOGY STATION (address not available).	
HANTAN CHUNGHO INDUSTRY COMPANY SUFENG COKE PILOT PLANT, Hantan, Hupeh Province.	Carbonization.
LOYANG MACHINERY PLANT, Loyang, Honan Province.	Mining equipment.
PEICHING COAL PREPARATION PLANT CONSTRUCTION INSTALLATION ENGINEERING COMPANY, Peiping, Hopeh Province.	
YANGCHUAN ENGINEERING COMPANY RESEARCH STATION, Yangchuan, Shansi Province.	Mining.

Other Serial Publications of Interest

	Publishers
JAN LIAO HSÜEH PAO, or ACTA FOCALIA SINICA. Quarterly. Comprehensive (The most important journal on fuel published by the Chinese; includes English, or Russian, summaries of research papers and table of contents).	Ko-hsüeh (Science) Publishing House. Printed at: Academia Sinica Printing Plant, Peking, Honan Province.

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China, Mainland (Con.)

Other Serial Publications of Interest

	Publishers
MEI-K'UANG CHI-SHU (COAL MINING TECHNOLOGY). Monthly. Mining, preparation.	Mei-t'an Kung-yeh (Coal Industry) Publishing House. Printed at: Construction Engineering Publishing House Printing Plant, Peking, Honan Province.
MEI-T'AN KUNG-YEH (COAL INDUSTRY). Semi-monthly. Mining, reserves, carbonization, occasional items in all other areas, general news.	Mei-t'an Kung-yeh (Coal Industry) Publishing House. Printed at: Construction Engineering Publishing House Printing Plant, Peking, Honan Province.

COAL RESEARCH ORGANIZATIONS

Colombia

Name	Activities
PAZ DEL RIO, Banco de Colombia, 6 Piso, Calle 3, Carrera 8a, Bogota.	Carbonization.
PLANTA LAVADORA DEL VALLE DEL CAUCA, Carbones del Valle y del Cauca, S.A., Valher, 2 Piso, Cali.	Analysis, preparation.

Czechoslovakia

I. MINISTRY OF FUEL INDUSTRY (Scientific-Technical Council has eight sections, including bituminous coal, brown coal and lignite, petroleum and natural gas, preparation and coking, mechanization, etc.):

RESEARCH INSTITUTE FOR COAL AND LABOR SAFETY (VVÚU), Ostrava-Rodvanice.	Mining, transport, health and safety.
MINE-MECHANIZATION INSTITUTE (ÚDM), Praha-Košire.	Mining.

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Czechoslovakia (Con.)

Name	Activities
BROWN-COAL RESEARCH INSTITUTE (VUHU), Most.	Mining (mostly brown coal and lignite), transport, spontaneous combustion.
MINING RESEARCH INSTITUTE (ÚSTAV PRO VĚDECKÝ VÝZKUM), Praha-Rokoska.	Mining, geology, preparation, briquetting.
RESEARCH INSTITUTE FOR THE STUDY AND UTILIZATION OF SOLID AND GASEOUS FUEL (ÚSTAV PRO VÝZKUM A VYUŽITI TUHÝCH A PLÝNNYCH PALIV), Praha-Běchovice.	Analysis, preparation, combustion, carbonization, briquetting, gasification.
INSTITUTE FOR MINE PLANNING (a branch of Bansk Project, State Institute), Ostrava.	Mining, preparation.

II. CZECHOSLOVAK ACADEMY OF SCIENCES:

MINING INSTITUTE, DIVISION OF BASIC RESEARCH ON SOLID FUELS, Prague.	Analysis, construction.

Educational Organizations

FACULTÉ DE MINES DE L'ÉCOLE POLYTECHNIQUE DE KOSICE, Sokolavska 59, Praha X.	
INSTITUTE OF TECHNOLOGY VYSOKÁ ŠKOLA TECHNICKÁ, Švermova, 3, Košice.	Mining.
THE INTERNATIONAL MINING RESEARCH INSTITUTE OF LIDICE (established 1947), Lidice.	Mining, health and safety.
VYSOKÁ ŠKOLA CHEMICKO-TECHNOLOGICKÁ INSTITUTE OF CHEMICAL TECHNOLOGY, Technická 1905, Prague XI.	Analysis, hydrogenation.

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COAL RESEARCH ORGANIZATIONS

Finland

Name	Activities
HELSINGIN KAUBUNGIN KAASULAITOS (Gas Factory of Finland), Helsingin.	Gasification.
STATE PEAT AND OIL INSTITUTE, Fredriksgatan 25A17, Helsinki.	Peat utilization.
VALTION TEKNILLINEN TUTKIMUSLAITOS (State Institute of Technical Research), Lönnrotinkatu 37, Helsinki.	Combustion and fuel efficiency.

Formosa

THE GEOLOGICAL SURVEY OF TAIWAN, Taiwan. PUBLICATIONS: Bulletins.	Mining and geology.

France

CERCHAR (CENTRE D'ÉTUDES ET RECHERCHES DES CHARBONNAGES DE FRANCE) (French Coal Mines Study and Research Center), 35, rue Saint Dominique, Paris 7e. PUBLICATIONS: Annual Report (including list of publications for year); Special Reports and publications; Bulletin of Technical Information (6 per year); Technical Information Circulars; in technical press, "Notes Techniques de Charbonnages de France"; station at Verneuil (Oise) also issues annual reports and publications; experiment station at Marienau is closely associated with CERCHAR, but independent.	Analysis, constitution, mining, preparation, combustion, carbonization, briquetting, gasification, hydrogenation, health and safety.
ÉCOLE NATIONALE SUPÉRIEURE DES MINES DE PARIS, Paris.	

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France (Con.)

Name	Activities
ÉCOLE NATIONALE SUPÉRIEURE DES MINES DE SAINT-ÉTIENNE, Saint-Étienne.	
INSTITUT DE RECHERCHES DE LA SIDÉRURGIE (IRSID), 185, rue Président Roosevelt, Saint-Germain-En-Laye. PUBLICATIONS: Annual and special reports; reports on special activities and functions (that is, on coke and casting, organization, etc.); list of publications.	Analysis, carbonization.
SOVACO (SOCIÉTÉ POUR LA VALORISATION DES COMBUSTIBLES), 11, rue Royale, Paris 8e.	Petrography, preparation, carbonization.
STATION EXPERIMENTALE DE MARIENAU, Marienau, les Forbach (Moselle) (financed and administered by several organizations, including Iron & Steel Industry Research Institute, The Sarre Mines Administration, and CERCHAR). PUBLICATIONS: "Chaleur et Industrie", monthly (publication office at 2, rue des Tanneries, Paris 13e.	Carbonization.
UNIVERSITY OF BESANÇON, Faculté des Sciences, Besançon.	Analysis.
UNIVERSITY OF LILLE, Faculté des Sciences, Centre de Carbochimie, Lille.	Analysis.
UNIVERSITY OF NANCY, 13, place Carnot, Nancy.	Constitution, carbonization (sponsored mostly by CERCHAR).
UNIVERSITY OF STRASBOURG, Macromolecular Research Center, 6, rue de la Touissant, Strasbourg.	Analysis, constitution.

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France (Con.)

Other Serial Publications of Interest

	Publishers
ANNALES DES MINES. Irregular. Geology, reserves, mining, etc.	Bureau de Recherches Géologique, Géophysiques, et Minières, 40 rue du Colisée, Paris 8e.
	Offices
CHALEUR ET INDUSTRIE. Monthly.	2, rue des Tanneries, Paris 13e.
	Publishers
COMPTE RENDU DU CONGRÈS DE L'INDUSTRIE DU GAZ. Annual.	Association Technique de l'Industrie du Gaz en France, 62 rue de Courcelles, Paris 8e.
	Offices
JOURNAL DES USINES À GAZ. Monthly.	62 rue de Courcelles, Paris 8e.
REVUE DE L'INDUSTRIE MINÉRALE (Journal of the Société de l'Industrie Minérale). Monthly. Original and review papers on mining, geology, preparation, safety, etc.	19, rue du Grand-Moulin, Saint-Étienne.

COAL RESEARCH ORGANIZATIONS

Germany, East

Name	Activities
BERGAKADEMIE FREIBERG, Freiberg. PUBLICATIONS: Freiberger Forschungshefte, Series A.	
A. Institut für Organische Chemie und Chemie der Kohle und Öle.	Chemistry of coals and oils.
B. Institut für chemische Kohleveredlung.	Chemical upgrading of coal.

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Germany, East (Con.)

Name	Activities
C. Institut für technische Brennstoffverwertung.	Combustion.
D. Institut für Brikettierung.	Briquetting.
E. Forschungsinstitut für Aufbereitung, Freiberg Strasse des Friedens 40, Freiberg.	Preparation.
DEUTSCHES BRENNSTOFFINSTITUT, Nonnengasse, Freiberg.	Mining, preparation, utilization.
VERSUCHSSTRECKE FREIBERG ZENTRALINSTITUT FÜR EXPLOSIONS- UND BRANDBEKÄMPFUNG IM BERGBAU UND IN DER INDUSTRIE, Reiche Zeche, Freiberg.	Mining, safety.
VEB PROJEKTIERUNGS- UND KONSTRUKTIONSBÜRO "KOHLE", Wallstrasse 9-13, Berlin C-2.	Mining, briquetting.
VEB PROJEKTIERUNGS-, KONSTRUKTIONS- UND MONTAGEBÜRO KOHLEVERARBEITUNG, Dietrich Ring 18-20, Leipzig.	Carbonization.

COAL RESEARCH ORGANIZATIONS

Germany, West

HEINRICH KOPPERS G.m.b.H., Moltkestrasse 29, Essen.	Gasification, purification.
LURGI GESELLSCHAFT FÜR WÄRMETECHNIK M.B.H., Gervinusstrasse, 17/19, Frankfurt am Main. PUBLICATIONS: "Our Activities"; in technical literature--no special publications in solid fuel technology for last few years.	Gasification.

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Germany, West (Con.)

Name	Activities
MAX-PLANCK-INSTITUT FÜR KOHLENFORSCHUNG, Kaiser-Wilhelm-Platz 1, Mülheim an der Ruhr.	Oxo reaction, nothing related directly to coal.
RUHRKOHLENBERATUNG G.m.b.H., Brennstoffchemisches Institut, Essen. PUBLICATIONS: "Ruhrkohlen Handbuch" (guide for industrial use of Ruhr coals), includes classification, analytic methods, combustion, gasification, coking, slagging properties of ash, etc.).	Sampling, analysis, high- and low-temperature carbonization (lab-scale tests).
RUHRCHEMIE, Oberhausen-Holten.	Fischer-Tropsch.
STEINKOHLENBERGBAUVEREIN, Friedrichstrasse 2, Essen. (Now quartered in new building.) Research work and pilot plant operations carried out by Bergbau-Forschungsanstalt and Bergwerks-Verband G.m.b.H. in Essen--both organizations closely linked to Steinkohlenbergbauverein. PUBLICATIONS: Annual Report; "Technik und Forschung" (collected reprints of publications describing studies of the Steinkohlenbergbauverein in Essen), issued regularly (bimonthly).	Analysis, constitution, mining, preparation, combustion, carbonization.
STEINKOHLENBERGBAUVEREIN:	
A. Bergbau-Forschung G.m.b.H. (Experimental Laboratories), Essen-Kray.	Analysis, constitution, combustion, carbonization, upgrading (chemical) health and safety, preparation.
B. Steinkohlenbergbauverein: Main Section A: Mining Technology. Main Section B: Coal Upgrading. Bismarckstrasse 41, Essen.	Analysis, constitution, mining, preparation, combustion, carbonization, briquetting, gasification, utilization, thermal upgrading, quality control, health and safety, air pollution.

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Germany, West (Con.)

Name	Activities
Educational Research Institutes Associated with Steinkohlenbergbauverein and/or Conducting Research on Coal:	
BERGAKADEMIE CLAUSTHAL:	
A. Institut für Aufbereitung (Institute for Preparation), Clausthal.	Preparation.
B. Institut für Bergbaukunde (Institute for Mining Technology), Hindenburgplatz 2, Clausthal.	Mining.
C. Institut für Brennstoffchemie und Brennstofftechnik (Institute of Fuel Chemistry and Technology), Erzstrasse 22, Am Kaiser-Wilhelm-Schacht, Clausthal-Zellerfeld 1. PUBLICATIONS: Edits "Die Bergbauwissenschaften" (monthly publication of "The Mining Sciences," published by Hermann Hubener Verlag in Goslar).	Analysis, mining, auto-oxydation of hydrocarbons, briquetting.
D. Institut für Mineralogie, Petrographie und Lagerstättenkunde (Institute for Mineral Technology, Petrography, and Geologic Deposits), Clausthal.	Geology, petrography.
TECHNISCHE HOCHSCHULE AACHEN, Templergraben 55, Aachen:	
A. Chemisch-technisches Institut.	Analysis, constitution.
B. Forschungsinstitut für Verfahrenstechnik.	Process technology.
C. Giesserei-Institut.	Foundry.

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Germany, West (Con.)

Name	Activities
D. Institut für Aufbereitung und Brikettierung, Wüllnerstrasse 2. PUBLICATIONS: "Aachener Blätter für Aufbereiten-Verkoken-Brikettieren" (Aachen News for Coal Preparation-Coking and Briquetting), published by T. H. Aachen, (5 issues per year).	Preparation and briquetting, carbonization.
E. Institut für Bergbaukunde.	Mining.
F. Institut für Brennstoffchemie.	Analysis, constitution, carbonization, petrography, fuel chemistry, technology, silicate chemistry.
G. Institut für Werkstoffkunde.	Raw materials science.
TECHNISCHE UNIVERSITAT BERLIN:	
A. Institut für Bergbaukunde, Faculty of Mining, Hardenbergstrasse 34, Berlin-Charlotteburg 2.	Mining.
B. Institut für Brennstofftechnik (Institute of Fuel Technology), Gartenufer 1, Berlin-Charlottenburg 2.	Fischer-Tropsch.
C. Technisch-chemisches Institut (Institute of Chemical Technology).	Fuel technology.
D. Institut für Aufbereitung (Preparation Institute).	Preparation.
TECHNISCHE HOCHSCHULE BRAUNSCHWEIG, Institut für Chemische Technologie, Fasanenstrasse 3, Braunschweig.	Analysis, carbonization.
TECHNISCHE HOCHSCHULE HANNOVER, Institut für Fördertechnik, Hannover.	Transport (haulage).

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Germany, West (Con.)

Name	Activities
TECHNISCHE HOCHSCHULE KARLSRUHE:	
A. Gasinstitut, Chemische Forschungsabteilung (Chemical Research Division), Schlachthausstrasse 3, Karlsruhe.	Gasification.
B. Carl-Engler- und Hans Bunte-Institut für Mineralöl- und Kohleforschung, Kaiserstrasse 12, Karlsruhe.	Analysis, constitution, combustion, upgrading of brown coal and peat, coking, reactivity of cokes, by-products and upgrading of tars, and gasification.
TECHNISCHE HOCHSCHULE MÜNCHEN, Institut für Spannungsoptik (Strain Optics), Munich.	Analysis.
UNIVERSITÄT MÜNSTER, Organisch-Chemisches Institut, Münster in Westfalen.	Analysis, constitution, chemical reactions.

Other Serial Publications of Interest

	Publishers
BRAUNKOHLE: Monthly. All categories.	Verlag "Die Braunkohle," Feldstrasse 30, Düsseldorf.
BRENNSTOFF-CHEMIE. Monthly. Original papers in all areas.	Verlag W. Girardet, Essen.
BRENNSTOFF-WÄRME-KRAFT. Monthly. Combustion and fuel efficiency.	VDI Verlag G.m.b.H. Bongardstrasse 3, Düsseldorf.
CHEMIE-INGENIEUR-TECHNIK. Monthly. Mostly combustion, carbonization, Fischer-Tropsch, hydrogenation, gasification (utilization).	Verlag Chemie G.m.b.H. Pappelallee 3, Weinheim 1 (Bergstrasse).
ERDÖL UND KOHLE. Monthly. Combustion, carbonization, Fischer-Tropsch, hydrogenation, gasification, and general news items.	Industrieverlag von Hernhaussen K. G., Lietzenburgerstrasse 39, Berlin w 15.

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Germany, West (Con.)

Other Serial Publications of Interest

	Publishers
GAS- UND WASSERFACH, DAS. Semimonthly. Gasification.	R. Oldenbourg, Rosenheimerstrasse 145, Munich.
GLÜCKAUF. Biweekly. Primarily mining and preparation.	Verlag Glückauf G.m.b.H. Huyssenallee 105, Essen.
MITTEILUNGEN der VEREINIGUNG der GROSSKESSELBESITZER. Irregular. Combustion and fuel efficiency.	Verlag Stahleisen m.b.H., Breitestrasse 27, Postfach 2590, Düsseldorf.
ZEITSCHRIFT der DEUTSCHEN GEOLOGISCHEN GESELLSCHAFT. Irregular. Geology and coal preparation.	Deutsche Geologische Gesellschaft, Wiesenstrasse 72-74, Hannover.

COAL RESEARCH ORGANIZATIONS

Hungary

Name	Activities
BÁNYÁSZATI KUTATÓ INTÉZET (MINING RESEARCH INSTITUTE), Mikoviny u. 2, Budapest III.	Analysis, mining, preparation.
BÁNYÁSZATI ROBBANTÁSTECHNIKAI KUTATÓ INTÉZET (MINING RESEARCH INSTITUTE FOR BLASTING TECHNIQUE), Tatabánya.	Mining, safety.

Other Serial Publications of Interest

	Publishers
ACTA TECHNICA (MAGYAR TUDOMANYOS AKADEMIA). Transactions on technical sciences; articles in English, French, German and Russian, with summaries in another language from that of the article.	Hungarian Academy of Sciences, Budapest.

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Hungary (Con.)

Other Serial Publications of Interest

	Publishers
BANYASZATI LAPOK (MAGYAR BANYASZATI ES KOHASZATI EGYESULET). Monthly. Mining, preparation. A journal on prospecting and mining.	Hungarian Mining and Metallurgic Society, Budapest.

COAL RESEARCH ORGANIZATIONS

India

Name	Activities
CENTRAL FUEL RESEARCH INSTITUTE, Jealgora P.O., Dhanbad District, Bihar. PUBLICATIONS: Annual Report (of the Director); list of publications (papers, reports, monographs and patents issued); special reports; preliminary reports; FRI News (monthly).	Analysis, constitution, preparation, combustion, low-temperature carbonization, briquetting, gasification, hydrogenation, Fischer-Tropsch.
CENTRAL MINING RESEARCH STATION, Post Box 50, Dhanbad, Bihar.	Mining, health and safety.
GEOLOGICAL SURVEY OF INDIA, 27 Chowringhee Road, Calcutta 13. PUBLICATIONS: Special reports; Records (including Annual Report); Memoirs; Paleontologica Indica; Bulletins.	Analysis and petrography, mining and reserves.
INDIAN INSTITUTE OF TECHNOLOGY, Khanagpur.	
MINING, GEOLOGICAL AND METALLURGICAL INSTITUTE OF INDIA, 27 Chowringhee Road, Calcutta 13. PUBLICATIONS: Transactions; "Notes and News"; "Directory of Indian Mines and Metals"; list of publications.	Mining and reserves.

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India (Con.)

Name	Activities
REGIONAL RESEARCH LABORATORY (formerly Central Laboratories for Scientific and Industrial Research), Fuel Section, Hyderabad-Deccan 9. PUBLICATIONS: Annual Report.	Sampling and analysis, low-temperature carbonization, briquetting, analysis and upgrading (tar).
TATA IRON AND STEEL COMPANY, LTD., THE, Jamshedpur.	Carbonization.
COAL BOARD, 1 - Council House Street, Calcutta.	

Other Serial Publications of Interest

	Offices
JOURNAL OF MINES, METALS, & FUELS (Incorporating Indian Mining Journal). Monthly. Includes papers on mining, health and safety, preparation, etc., and general news items.	6/2 Madan Street, Calcutta 13.

COAL RESEARCH ORGANIZATIONS

Ireland

Name	Activities
BORD NA MONA, 28, Upper Pembroke Street, Dublin. PUBLICATIONS: Peat Abstracts.	Peat research only.

Italy

ANCC. ASSOCIAZIONE NAZIONALE PER IL CONTROLLO DELLA COMBUSTIONE (National Fuel Control Association), Via Urbana, 165, Rome. PUBLICATIONS: "Il Calore" (monthly journal on fuel efficiency); Bulletins; handbooks; standards for sampling and analysis.	Analysis, combustion, fuel and equipment efficiency.

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Italy (Con).

Name	Activities
ASSN. TERMOTECNICA ITALIANA (and also COMITATO TERMOTECNICO ITALIANO), Castello al Valentino, Turin, or Via Marcona, 15, Milan. PUBLICATIONS: "La Termotecnica" (monthly journal).	Combustion, fuel efficiency.
CESALPINIA S.p.A., Via Felice Casati, 44, Milan 402. PUBLICATIONS: None.	Preparation.
COMITATO CARBONI (Coal Committee), Ministero dell' Industria e del Commercio, Via Molise, Rome.	Sampling, analysis, briquetting, carbonization.
CORNIGLIANO S.p.a. Genova.	Analysis, low-temperature carbonization.
INSTITUTO SPERIMENTALE DELLE FERROVIE DELLO STATO, Piazzo Ippolito Nievo, 29, Rome.	Analysis, combustion, fuel efficiency.
STAZIONE SPERIMENTALE PER I COMBUSTIBILI PRESSO IL POLITECNICO DI MILANO (Ministero Industria e Commercio), Piazza L. da Vinci, 32, Milan. PUBLICATIONS: Annual Report; List of Publications, 1922-1957; journal "La Rivista dei Combustibili" (A Cura Della Stazione Sperimentale per i Combustibili), monthly.	Analysis, combustion.
SOCIETA GEMINA (GEOMINERARIA NAZIONALE, S.p.A.), Via Anieve, 14, Roma. PUBLICATIONS: No periodical reports, but has published one bulletin on the Mercure deposit.	Mining, preparation (lignite).

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Italy (Con.)

Name	Activities
UNIVERSITY OF CAGLIARI, INSTITUTE OF METALLURGY AND METALLOGRAPHY, Cagliari.	Analysis and constitution.
UNIVERSITY OF NAPLES, INSTITUTE OF INDUSTRIAL CHEMISTRY, Naples.	Low-temperature carbonization.

COAL RESEARCH ORGANIZATIONS

Japan

Government Organizations

GEOLOGICAL SURVEY OF JAPAN, Hisamoto-cho, Kawasaki-shi. PUBLICATIONS: Monthly Report of Geological Survey of Japan; Report of Geological Survey of Japan (special issue).	Geology, prospecting.
GOVERNMENT CHEMICAL INDUSTRIAL RESEARCH INSTITUTE, TOKYO, Hatagaya-honcho, Shibuya-ku, Tokyo. PUBLICATIONS: Report of the Government Chemical Industrial Research Institute, Tokyo (monthly).	Systhesis of hydrocarbons.
RESOURCES RESEARCH INSTITUTE, Kawaguchi-shi, Saitama-ken. PUBLICATIONS: The Report of the Resources Research Institute (special issue); The Year Book of the Resources Research Institute; Coal Preparation Review (in alternate months); Mining and Safety (monthly); Research Data of Heat Control (special issue).	Analysis, constitution, mining, preparation, combustion, carbonization, gasification, hydrogenation, utilization, heat control.

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Japan (Con.)

Local Government Organizations

Name	Activities
CHEMICAL, INDUSTRIAL RESEARCH INSTITUTE OF HOKKAIDO, 8 ken, Kotoni, Sapporo-shi. PUBLICATIONS: HOKKO-SHI. Report of Chemical, Industrial Research of Hokkaido, (annual).	Combustion, fuel efficiency, gasification.
GEOLOGICAL SURVEY OF HOKKAIDO, Minami-11 jo, Nishi-4cho, Sapporo-shi. PUBLICATIONS: Report of the Geological Survey of Hokkaido (annual).	Geology.
MINING INSTITUTE OF YAMAGATA, Oki, Kanazawa, Shinjo-shi, Yamagata-ken. PUBLICATIONS: Report of the Mining Institute of Yamagata (annual).	Combustion, gasification.
NOHGATA MINING INSTITUTE OF FUKUOKA, Nohgata-shi, Fukuoka-ken. PUBLICATIONS: Report of the Nohgata Mining Institute (annual).	Mining, carbonization.

Educational Institutions

MINING COLLEGE, AKITA UNIVERSITY, Tegata, Akita-shi. PUBLICATIONS: Report of the Research Institute of Underground Resources, Mining College, Akita University.	Mining, preparation.
SCHOOL OF MINES, FACULTY OF ENGINEERING, UNIVERSITY OF HOKKAIDO, Kita 12-jo, Nishi-8cho, Sapporo-shi. PUBLICATIONS: Journal of the Faculty of Engineering, University of Hokkaido (annual).	Mining, preparation.

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Japan (Con.)

Educational Institutions

Name	Activities
SCHOOL OF MINES, FACULTY OF ENGINEERING, KYOTO UNIVERSITY, Yoshidahoncho, Sakyo-ku, Kyoto-shi. PUBLICATIONS: Report of the Faculty of Engineering, Kyoto University (annual).	Mining, preparation.
SCHOOL OF MINES, AND SCHOOL OF APPLIED CHEMISTRY, KYUSHU INSTITUTE OF TECHNOLOGY, Nakahara, Tobata-shi, Fukuoka-ken.	Analysis, mining, preparation, carbonization.
KURUME BRANCH, INDUSTRIAL SCIENCE INSTITUTE, KYUSHU UNIVERSITY, Komorino-cho, Kurume-shi, Fukuoka-ken.	Mining.
SCHOOL OF MINES, FACULTY OF ENGINEERING, KYUSHU UNIVERSITY, Hakozaki, Fukuoka-shi. PUBLICATIONS: Proceedings of the Faculty of Engineering, Kyushu University (annual).	Mining, preparation.
SCHOOL OF MINES, FACULTY OF ENGINEERING, TOHOKU UNIVERSITY, 5, Sakurakoji, Sendai-shi. PUBLICATIONS: Journal of the Faculty of Engineering, Tohoku University (annual).	Mining, preparation.
SCHOOL OF APPLIED CHEMISTRY, TOKYO INSTITUTE OF TECHNOLOGY, Ohokayama, Meguro-ku, Tokyo.	Gasification, synthesis of chemicals.
SCHOOL OF MINES, FACULTY OF ENGINEERING, UNIVERSITY OF TOKYO, Motofuji-cho, Bunkyo-ku, Tokyo. PUBLICATIONS: Journal of the Faculty of Engineering, University of Tokyo (annual).	Mining, preparation.

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Japan (Con.)

Educational Institutions

Name	Activities
INSTITUTE OF MINING, SCHOOL OF SCIENCE AND ENGINEERING, WASEDA UNIVERSITY, Totsuka, Shinjiku-ku, Tokyo. PUBLICATIONS: Bulletin of the Institute of Mining, School of Science and Engineering, Waseda University (monthly).	Mining, preparation.

Other Organizations

CENTRAL LABORATORY OF UBE KOSAN COMPANY, LTD., Ogushi, Ube-shi, Yamaguchi-ken.	Mining, utilization, gasification, systhesis of chemicals.
COAL CHEMISTRY LABORATORY, HOKKAIDO STEAMSHIP & COLLIERY COMPANY, LTD., Toda-machi, Saitama-ken.	Analysis, utilization, carbonization, gasification, hydrogenation.
COAL LABORATORY, MITSUBISHI MINING COMPANY, LTD., Ohmiyashi, Saitama-ken.	Preparation, utilization of coal mine gas.
COAL MINING ENGINEERING ASSOCIATION OF HOKKAIDO, Kita 1, Nishi 2, Sapporo-shi. PUBLICATIONS: Coal Mining Engineering (monthly).	Mining, preparation.
COAL MINING ENGINEERING ASSOCIATION OF KYUSHU, Shimo-doimachi, Fukuoka-shi. PUBLICATIONS: Journal of Coal Mining Engineering Association of Kyushu (monthly).	Mining, preparation.
COAL RESEARCH INSTITUTE, Nakameguro, Meguro-ku, Tokyo. PUBLICATIONS: "Tanken" (Monthly Report of Coal Research Institute).	Analysis, geology, petrography, preparation, carbonization, gasification.
COAL SCIENCE LABORATORY, NIPPON COLLIERY COMPANY, LTD., Takamatsu Mine, Mizumaki, Onga-gun, Fukuoka-ken. PUBLICATIONS: Report of the Coal Science Laboratory (special issue).	Analysis, petrography, geology, preparation, utilization of coal mine gas.

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Japan (Con.)

Other Organizations

Name	Activities
COKE DIVISION OF TECHNICAL RESEARCH INSTITUTE, YAWATA IRON AND STEEL COMPANY, LTD., Nakahara, Tobatashi, Fukuoka-ken.	Carbonization.
FUEL SOCIETY OF JAPAN, Nishi 3, Ginza, Chuo-ku, Tokyo. PUBLICATIONS: Journal of the Fuel Society of Japan (monthly).	Analysis, preparation, carbonization.
JAPAN POWER ASSOCIATION, 1, Marunouchi, Chiyoda-ku, Tokyo. PUBLICATIONS: Journal of the Japan Power Association (in alternate months).	Mining, preparation, carbonization, gasification.
MEGURO LABORATORY, MITSUI MINING COMPANY, LTD., Nakameguro, Meguro-ku, Tokyo.	Geology, preparation, briquetting.
MEGURO LABORATORY, MITSUI, KAGAKU COMPANY, LTD., Nakameguro, Meguro-ku, Tokyo.	Gasification, synthesis of chemicals.
MINING INSTITUTE OF HOKKAIDO, Kita 12, Nishi 8 Faculty of Engineering, Hokkaido University. PUBLICATIONS: Journal of the Mining Institute of Hokkaido (in alternate months).	Mining, preparation.
MINING INSTITUTE OF KYUSHU, Hakozaki, Fukuoka-shi, Faculty of Engineering, Kyushu University. PUBLICATIONS: Journal of the Mining Institute of Kyushu (monthly).	Mining, preparation.
MINING INSTITUTE OF TOHOKU, Sakurakoji, Sendai-shi, Faculty of Engineering, Tohoku University. PUBLICATIONS: Journal of the Mining Institute of Tohoku (in alternate months).	Mining, preparation.

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Japan (Con.)

Other Organizations

Name	Activities
MINING AND METALLURGICAL INSTITUTE OF JAPAN, Nishi 8 Ginza, Chuo-ku, Tokyo. PUBLICATIONS: Journal of the Mining and Metallurgical Institute of Japan (monthly).	Mining, preparation,
RESEARCH SECTION OF MIIKE GOSEI COMPANY, LTD., Gosei-cho, Ohmuda-shi, Fukuoka-ken.	Carbonization, gasification, hydrogenation, Fischer-Tropsch.
SCIENTIFIC RESEARCH INSTITUTE, Komagome-Fujimae-cho, Bunkyo-ku, Tokyo. PUBLICATIONS: Report of the Scientific Research Institute (monthly).	Utilization, gasification.
SUIYOKAI, Yoshida-honcho, Sakyoku, Kyoto-shi, Faculty of Engineering, Kyoto University. PUBLICATIONS: Journal of Suiyokai (in alternate months).	Mining, preparation.

COAL RESEARCH ORGANIZATIONS

Mexico

INSTITUTO MEXICANO DE INVESTIGACIONES TECNOLOGICAS, Calzada Legaria 694, Mexico 10, Distrito Federal. PUBLICATIONS: Theses; special bulletins issued by Banco de Mexico, S.A.	Analysis, preparation, low-temperature carbonization, gasification.

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COAL RESEARCH ORGANIZATIONS

Netherlands

Name	Activities
STAATSMIJNEN IN LIMBURG, Centraal Laboaratorium, Postbus 18, Geleen (Central Research Laboratories), and Heerlen (Treebeek, Mining Research Establishment). PUBLICATIONS: Commemorative book for 1902-52; "Publications" lists; Annual and Special Reports.	At Geleen: Analysis, constitution, mining, carbonization, briquetting, gasification, ammonia synthesis, pipeline gas, and chemicals from high-temperature coking. At Heerlen: Petrography, constitution (structure as relating to preparation), mining, preparation.
CENTRAAL TECHNISCH INSTITUUT T.N.O., Afdeling Warmte-Technick, Julianalaan 134, Delft.	

New Zealand

DEPARTMENT OF SCIENTIFIC AND INDUSTRIAL RESEARCH, The DSIR publishes annual reports; "Research Information Series"; and "Information Series" - Bulletins (for example: A Users Directory of New Zealand Coals). Coal Research Committee, Wellington. PUBLICATIONS: Annual Reports; Bulletins.	
DSIR, Dominion Laboratory, Gracefield Road, Lower Hutt:	
A. Coal Section.	Analysis, preparation, briquetting.
B. Chemical Engineering Section. PUBLICATIONS: Annual Reports (also included in DSIR reports); "D.L. (Technical) Reports."	Combustion, fuel efficiency, gas purification.

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New Zealand (Con.)

Name	Activities
DSIR Geological Survey, 156 The Terrace, Wellington. Field Offices: P.O. Box 11, Ngaruawahia; P.O. Box 90, Greymouth; and P.O. Box 60, Invercargill. PUBLICATIONS: Annual report included in DSIR report.	Analysis, reserve survey.
MINES DEPARTMENT (address not available).	Health and safety.

COAL RESEARCH ORGANIZATIONS

Norway

No research organizations, although carbonization experiments with Spitsbergen coal were made by a committee established by the Ministry of Industry. Also several organizations concerned with fuel efficiency.

Peru

BANCO MINERO DEL PERÚ, Lampa 450, Lima. PUBLICATIONS: Internal Reports of Industry; Investigations; list of publications.	Analysis, constitution, preparation, carbonization, briquetting, gasification.
CARBONERA ANCOS SAN ANTONIO S.A., Camaná 631, Lima. PUBLICATIONS: Internal Information Reports.	Analysis, constitution, preparation, carbonization.
CARBONERA PALLASCA S.A., Galerías Comerciales, Jirón Moquegua 270, Of. 502, Lima. PUBLICATIONS: Internal Information Reports.	Analysis, constitution, preparation, carbonization, briquetting.
INSTITUTO DE INGENIEROS DE MINAS, Avenida Colemna 708, Lima. PUBLICATIONS: "Anales de Convencion de Ingenieros de Minas."	Analysis, constitution, preparation, carbonization.

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Peru (Con.)

Name	Activities
INSTITUTO NACIONAL DE INVESTIGACIÓN Y FOMENTO MINERO, Carrillo 300, Lima. PUBLICATIONS: Bulletins.	Analysis, constitution, preparation, carbonization.
UNIVERSIDAD NACIONAL DE INGENIERÍA, Camino Ancón, Lima. PUBLICATIONS: Occasional Bulletins.	Analysis.

COAL RESEARCH ORGANIZATIONS

Poland

AKADEMIA GÓRNICZO-HUTNICZA (THE MINING AND METALLURGICAL ACADEMY), Mickiewicza 33a, Kraków. PUBLICATIONS: Quarterly Journals "Archiwum Górnictwa" (Mining Archives) and "Archiwum Hutnictwa" (Metallurgy).	Analysis, mining, geology, spontaneous combustion, safety.
GŁÓWNY INSTYTUT GÓRNICTWA (CENTRAL MINING INSTITUTE), ul. Katowicka 64, Katowice.	Analysis, constitution, mining, preparation, combustion, carbonization, gasification, transportation, safety, storage.

Departments:

GÓRNICTWA
(Mining Technology).

PRZEROBKI MECHANICZNEJ WĘGLA
(Mechanical Treatment of Coal).

CHEMICZNEJ PRZEROBKI WĘGLA
(Chemical Treatment of Coal).
PUBLICATIONS: Monthly journal, "Koks, Smola, Gaz. Comprehensive."

ENERGO-MECHANICZNY
(Mechanical Energy).

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Poland (Con.)

Name	Activities
WENTYLACJI KOPALN (Mine Ventilation).	
BEZPIECZENSTWA KOPALN (Mine Safety, experimental mine "Barbara").	
MECHANIZACJI GÓRNICZEJ (Mine Mechanization).	
MEDYCYNY I PSYCHOLOGII PRACY (Medicine and Psychology of Work).	
PETROGRAFJI WĘGLA (Petrography of Coal).	
PUBLICATIONS: "Prace", in different series (technical reports, similar to Bureau of Mines Report of Investigations series).	
ZAKŁADY KONSTRUKCYJNO-MECHANIZACYJNE, PRZEMYSLU, WĘGLOWEGO (THE DESIGNING AND MECHANIZATION INSTITUTE OF THE COAL MINING INDUSTRY), Ul. Luzycka 16, Gliwice.	Mining and equipment.
PANSTWOWY INSTYTUT GEOLOGICZNY (GEOLOGICAL INSTITUTE), Department of Coal, Warsaw.	Geology, analysis, constition.
INSTYTUT CHEMICZNEY PRZEROBKI WĘGLA (INSTITUTE OF CHEMICAL COAL PREPARATION), Zabrze-Biskupice (under control of Ministry of Heavy Industry).	
POLITECHNIKA SLASKĄ IM. W. PETROWSKIEGO (THE SILESIAN HIGHER POLYTECHNIC SCHOOL), Ul. Katowicka 2, Gliwice.	Analysis, constitution, mining, preparation, safety.
POLITECHNIKA WROCLAWSKA (THE POLYTECHNIC SCHOOL OF WROCLAW), Ul. Smoluchowskiego 25, Wroclaw.	Analysis, constitution, carbonization, combustion.

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Poland (Con.)

Name	Activities
SPECIAL COAL GASIFICATION STATION, Warsaw.	

Other Serial Publications of Interest

	Offices
KOKS-SMOLA-GAZ. Monthly. Comprehensive.	Zamkova 1, Zabrze 3.
	Publishers
PRZEGLĄD GORNICZY (Mining Review). Mining.	Wydawnictwo Górniczo-Hutnicze, Ul. Stawowa 19, Katowice.
PRZEGLĄD POLSKIEGIO PISMIENNICTWA TECHNICZNEGO (Polish Technical Abstracts). Monthly. Includes abstracts of 30 or more journals or serial publications, including items related to coal science and technology.	Centralny Instytut Dokumentacji Naukowo-Techniczney, 188 Aleja Niepodlegosci, Warsaw.

COAL RESEARCH ORGANIZATIONS

Portugal

Name	Activities
DIRECCÀO GERAL DOS COMBUSTIVEIS, MINISTERIO DA ECONOMIA (DIRECTION GÉNÉRALE DES COMBUSTIBLES DU MINISTÈRE DE L'ÉCONOMIE), Av. Miguel Bombarda, 6, Lisboa.	Analysis, combustion, carbonization, hydrogenation.
DIRECCÀO GERAL DE MINAS E SERVICOS GEOLOGICOS, MINISTERIO DA ECONOMIA (DIRECTION GÉNÉRALE DES MINES ET DES SERVICES GÉOLOGIQUES DU MINISTÈRE DE L'ÉCONOMIE), Praca do Comércio, Lisboa.	Mining, geology.

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COAL RESEARCH ORGANIZATIONS

Rumania

Name	Activities
INSTITUTUL DE ENERGETICÀ AL ACADEMICI REPUBLICII POPULARE ROMINE (POWER INSTITUTE OF RUMANIAN ACADEMY), Soseaua Vitan No. 236, Bucureşti. PUBLICATIONS: Studii Si Cercetari De Energetica (Academia Republicii Populare Romine, Institutul de Energetika, Bucuresti.) Journal on the electric power industry and electrical engineering. Quarterly. Includes articles on carbonization and combustion, with French and Russian summaries.	Carbonization, combustion.
INSTITUTUL POLITEHNIC BUCUREŞTI, Bucureşti.	Briquetting.

Other Serial Publications of Interest

	Publishers Offices
REVISTA MINELOR. Organ al asociatiei stiintifice a inginerilor si technicienilor din R.P.R. al ministerului industriei grele - departmentul carbune si minereuri si al ministerului industriei petrolului si chimiei (directia exploatoarilor miniere). Monthly. Table of contents in English. Original papers include mining; briquetting; carbonization; geology; health and safety; etc.	Str. Ion Ghica, 3, Bucureşti.

South Africa

Name	Activities
BRANDSTOFNAVORSINGSINSTITUUT VAN SUID-AFRIKA (FUEL RESEARCH INSTITUTE OF SOUTH AFRICA), Lynnwoodweg Road, P.O. Box 217, Pretoria, Transvaal. PUBLICATIONS: Annual Report; List of Publications.	Analysis, reserves, constitution, preparation, combustion, carbonization, Fischer-Tropsch.

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South Africa (Con.)

Name	Activities
COUNCIL FOR SCIENTIFIC AND INDUSTRIAL RESEARCH, P.O. Box 395, Pretoria, Transvaal.	
A. National Institute for Road Research.	High-temperature tar processing and utilization.
B. National Mechanical Engineering Research Institute.	Mining, gas turbine research with pulverized coal, combustion, transportation.
PUBLICATIONS: C.S.I.R. Research Review (of South Africa), incorporates news of current activities, general articles, and publications issued by various research organizations (mostly health) in South Africa; Annual Report; "Register of Scientific Research at South African Universities"; Research in the Service of Government and Industry (summary of research by Council Laboratories); S. A. Standards Bulletin (monthly); and Science News Selections (weekly).	
UNIVERSITY OF NATAL, King George V Avenue, Durban, Natal.	Combustion, gas purification.
UNIVERSITY OF PRETORIA, Brooklyn, Pretoria. Transvaal.	Fischer-Tropsch (catalysts).
UNIVERSITY OF STELLENBOSCH, Stellenbosch, Cape Province.	Fischer-Tropsch (catalysts).

Note: Work status of the above universities is described in C.S.I.R.'s annual "Register of Current Scientific Research at South African Universities."

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COAL RESEARCH ORGANIZATIONS

Spain

Name	Activities
CONSEJO SUPERIOR DE INVESTIGACIONES CIENTIFICAS INSTITUTO NACIONAL DEL COMBUSTIBLE:	
INSTITUTO NACIONAL DEL CARBON, Asturias 7, Oviedo. PUBLICATIONS: Annual Reports; Information Bulletins.	Analysis, preparation, carbonization.
SERVICIO DE ZARAGOZA, INSTITUTO NACIONAL DEL COMBUSTIBLE, Plaza del Paraiso 1, Zaragoza. PUBLICATIONS: Annual Reports; journal, "Combustibles."	Analysis, constitution, preparation (works primarily with lignite).

Sweden

PEAT RESEARCH LABORATORY,
Lund.

Several fuel efficiency organizations.

Switzerland

BROWN-BOVERI COMPANY, Baden.	Gasification (for gas turbine).
EIDGEN. MATERIALPRÜF. UND VERSUCHSANSTALT (EMPA) Laboratoire Federal d'essai des materiaux et Institut de Recherches (Federal Materials-Testing Laboratory and Research Institute), Leonhardstrasse 27, Zürich, 23.	Analysis, combustion (equipment performance).
EIDG. TECHN. HOCHSCHULE, Zürich. PUBLICATIONS: Occasional theses.	Fischer-Tropsch, methanation.
PROCAL--Service technique de renseignements du commerce suisse des combustibles (Technical Information Service for the Swiss Fuel Trade), Lausanne 1.	Combustion.

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Switzerland (Con.)

Name	Activities
PROCARBO--Centre d'Information sur l'emploi rationnel des combustibles solides (Information Center on the Rational Use of Solid Fuels), Freigutstrasse 7, Zürich 2.	Combustion, equipment evaluation.

COAL RESEARCH ORGANIZATIONS

Turkey

MINERAL RESEARCH AND EXPLORATION INSTITUTE OF TURKEY (MTA) (Maden Tetkik ve Arama Enstitüsü Nesriyat Servisi), Ankara. PUBLICATIONS: Occasional reports on special topics.	Geology, reserves (lignite mostly), analysis, preparation, carbonization.
ISTANBUL TECHNICAL UNIVERSITY (Maden Fakültes: Dekanliği Teknik Üniversite Gümüşsuyu), Istanbul. PUBLICATIONS: No reports published.	Exploration.
TÜRKIYE KÖMÜR ISLETMELERI (TKI), Kurumu Umum Müdürlük, Ankara.	Mining, geology, carbonization, briquetting.

Union of Soviet Socialist Republics

The U.S.S.R. Academy of Sciences has eight departments, including four that are of interest in this survey: (1) Physics and Mathematics; (2) Chemistry; (3) Geology and Geography; (4) Technical Sciences. Each department has a number of institutes attached. The Academy also has a large number of commissions and committees (there were 40 in 1952), institutes (57), research stations (38), laboratories (15), and scientific societies (10).

Among the organizations conducting research related to coal technology are the following:

I. Department of Geology and Geography, Moscow, Laboratory of Coal Geology.

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Name	Activities
II. Department of Technical Sciences, Moscow:	
A. Institute of Mining, IGD.	
B. Institute of Mineral Fuels, IGI.	
C. A. A. Baykov Institute of Metallurgy.	
D. G. M. Krzhizhanovsky Institute of Power Engineering.	

U.S.S.R. ACADEMY OF SCIENCES, INSTITUTE OF MINING (IGD AN SSR), Moscow, and U.S.S.R. ACADEMY OF SCIENCES, INSTITUTE OF MINERAL FUELS (IGI AN SSR) conduct coal research, initiate or approve projects in the following institutes, and coordinate research in the following institutes, numbered A 1-22 and B 1-4.

A series:

1. ALL-UNION SCIENTIFIC COAL RESEARCH INSTITUTE (VUGI), Panki (Stations in Petchora, Kizel, Chelyabinsk, and Georgian basins; also at Tula).	Mining, health and safety.
2. ALL-UNION SCIENTIFIC RESEARCH INSTITUTE FOR COAL BENEFICIATION AND BRIQUETTING (VNIIUgleobogashchenie), Panki (Station at Zhilevo, branch at Leningrad).	Preparation, briquetting, equipment design.
3. ALL-UNION SCIENTIFIC RESEARCH INSTITUTE FOR HYDRAULIC COAL MINING (VNIIGidrougol), Leninsk-Kuznetskiy.	Mining.
4. ALL-UNION SCIENTIFIC RESEARCH INSTITUTE FOR MINE SURVEYING (VNIMI) Leningrad (Stations in Donets, Kuznets, Karaganda, and Ural basins).	Mining.
5. ALL-UNION SCIENTIFIC RESEARCH INSTITUTE FOR UNDERGROUND GASIFICATION OF COAL (VNIIPodzemgaz), Moscow.	Gasification.
6. ALL-UNION SCIENTIFIC RESEARCH INSTITUTE FOR INDUSTRIAL TRANSPORT AND COAL EQUIPMENT TECHNOLOGY (VNIITuglemash), Moscow.	

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Name	Activities
7. ALL-UNION SCIENTIFIC RESEARCH INSTITUTE FOR INDUSTRIAL AND MINERS' HOUSING CONSTRUCTION, Kiev.	Mining.
8. ALL-UNION SCIENTIFIC RESEARCH INSTITUTE FOR THE ORGANIZATION AND MECHANIZATION OF MINE CONSTRUCTION (VNIIOMShS), Kharkov.	Mining.
9. CENTRAL DESIGN AND PLANNING INSTITUTE FOR COAL MINE CONSTRUCTION (Tsentrogiproshakht), Moscow.	
10. CENTRAL INSTITUTE FOR TECHNICAL-ECONOMIC INFORMATION (TsITI), Moscow.	
11. CENTRAL SCIENTIFIC RESEARCH INSTITUTE FOR UNDERGROUND MINE CONSTRUCTION (TsNIIP), Moscow.	
12. DESIGN AND PLANNING INSTITUTE FOR THE AUTOMATION OF THE COAL INDUSTRY (Giprougleautomatizatsiya), Moscow.	
13. DESIGN, PLANNING AND CONSTRUCTION INSTITUTE FOR NEW MACHINERY AND DEVICES FOR SHAFT SINKING OPERATIONS (Giproshakhtostroymash), Moscow.	
14. THE DONETS BASIN COAL RESEARCH INSTITUTE (DonUGI), Stalino.	Mining.
15. EASTERN SCIENTIFIC RESEARCH INSTITUTE FOR COAL MINE SAFETY (VostNII), Novosibirsk.	
16. EXPERIMENTAL INSTITUTE FOR THE DESIGN AND CONSTRUCTION OF COAL MINING MACHINERY (Giprouglemash), Moscow.	

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Union of Soviet Socialist Republics (Con.)

Name	Activities
17. THE KARAGANDA BASIN SCIENTIFIC RESEARCH COAL INSTITUTE (KNIUI), Karaganda.	Mining.
18. MAKEYEVKA SCIENTIFIC RESEARCH INSTITUTE FOR COAL MINE SAFETY (MakNII), Makeyevka.	Safety.
19. THE KUZNETS BASIN SCIENTIFIC RESEARCH COAL INSTITUTE (KuzNIUI), Prokopyevsk.	Mining.
20. MOSCOW REGIONAL SCIENTIFIC RESEARCH INSTITUTE FOR COAL (PNIUI), Stalinogorsk.	
21. STATE INSTITUTE FOR THE DESIGN AND CONSTRUCTION OF COAL MINING MACHINERY FOR THE DONETS BASIN (Dongiprouglemash), 114 Artema Street, Stalino.	
22. STATE INSTITUTE FOR DESIGN AND PLANNING OF INDUSTRIAL BY-PRODUCT COKE ESTABLISHMENTS (Giprokoks), Moscow.	Carbonization.
U.S.S.R. ACADEMY OF SCIENCES, INSTITUTE OF MINERAL FUELS (IGI AN SSR).	Analysis, carbonization, briquetting (including non-coking coals).

B series:

1. KRIVOY ROG METALLURGICAL WORKS, Krivoy Rog.	Analysis, carbonization.
2. KHARKOV COKING WORKS, Kharkov.	Carbonization.
3. MAGNITOGORSK METALLURGICAL COMBINE, Coke Oven Research Laboratory TsZL, Magnitogorsk.	Carbonization.
4. ORSK-KHALILOVO METALLURGICAL COMBINE (Orsko-Khalilovskiy Metallurgicheskiy Kombinat), Chkalov Oblast.	Analysis.

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Academies of Sciences of the Union Republics

Name	Activities
ACADEMY OF SCIENCES OF THE ARMENIAN S.S.R., AT ERIVAN, Institute of Geology.	
ACADEMY OF SCIENCES OF THE AZERBAIJANIAN S.S.R., AT BAKU, I. M. Gubkin Institute of Geology, I. B. Esman Institute of Power Engineering.	
ACADEMY OF SCIENCES OF THE BYELORUSSIAN S.S.R., AT MINSK, Institute of Peat, Institute of Geology, Power Engineering Station.	
ACADEMY OF SCIENCES OF THE ESTONIAN S.S.R., AT TALLINN, Institute of Geology.	
ACADEMY OF SCIENCES OF THE GEORGIAN S.S.R., AT TBILISI, Institute of Geology and Mineralogy, Institute of Metals and Mining, Institute of Power Engineering.	Mining.
ACADEMY OF SCIENCES OF THE KAZAKH S.S.R., AT ALMA ATA, Institute of Mining.	Mining.
ACADEMY OF SCIENCES OF THE KIRGHIZ S.S.R., AT FRUNZE, Department of Natural and Technical Sciences; Mining and Metallurgical Sections.	
ACADEMY OF SCIENCES OF THE LATVIAN S.S.R., AT RIGA, Institute of Power Engineering and Machine Building, Institute of Geology and Geography.	
ACADEMY OF SCIENCES OF THE LITHUANIAN S.S.R., AT VILNIUS, Institute of Chemistry and Chemical Technology, Institute of Geology and Geography, Institute of Technical Sciences.	

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Union of Soviet Socialist Republics (Con.)

Academies of Sciences of the Union Republics

Name	Activities
ACADEMY OF SCIENCES OF THE TAJIK S.S.R., AT STALINABAD.	
ACADEMY OF SCIENCES OF THE UKRAINIAN S.S.R., AT KIEV,	
Institute of Geology,	
Institute of Mining (formerly the Rock Mechanics Institute),	Mining.
Institute of Iron and Steel,	
Institute of Power from Heat,	
Institute of Coal Chemical Research.	Analysis, carbonization.
ACADEMY OF SCIENCES OF UZBEK S.S.R., AT TASHKENT,	
Institute of Power Engineering,	
Institute of Geology.	

Note: Many of these Institutes publish Bulletins, Transactions, etc.

Mining Research is also conducted at the following Branches of the Academies of Sciences of the U.S.S.R.:

1. INSTITUTE FOR MINING GEOLOGY (Ural affiliate of the U.S.S.R. Academy of Sciences), Sverdlovsk.

2. MINING INSTITUTE (West-Siberian affiliate of the U.S.S.R. Academy of Sciences), Novosibirsk.

3. MINING INSTITUTE (East-Siberian affiliate of the U.S.S.R. Academy of Sciences), Irkutsk.

Educational Institutions

Name	Activities
IRKUTSKIY GOSUDARSTVENNYY UNIVERSITET (Irkutsk State University), Irkutsk, Rossiskaya S.F.S.R.	Analysis, preparation, carbonization.

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Educational Institutions

Definite information on the following is not available, but published data and references indicate that coal research is being conducted by the following institutes:

Name	Activities
Mining & Metallurgy:	
ACADEMY OF THE COAL INDUSTRY, Ul. Kropotkina 37, Moscow, S.F.S.R.	
ALL-UNION INSTITUTE OF MINE SURVEYING, Moscow, S.F.S.R.	
CENTRAL IRON & STEEL RESEARCH INSTITUTE, Tekhnichesky per. 12, Moscow, S.F.S.R.	
DNEPRODZERZHINSK INSTITUTE OF MINING AND METALLURGY, Ul. Pelina 16, Dneprodzerzhinsk, Ukrainian S.S.R.	
DNEPROPETROVSK MINING INSTITUTE, Pr. Karla Marska 21, Dnepropetrovsk, Ukrainian S.S.R.	Analysis, carbonization, briquetting.
IRKUTSK MINING AND METALLURGICAL INSTITUTE, Ul. Krasnoj Zvezdy 5, Irkutsk, S.F.S.R.	
KAZAKH MINING AND METALLURGICAL INSTITUTE, Pl. Lenina 90, Alma Ata, Kazakhskaya S.S.R.	
KEMEROVO MINING INSTITUTE, Poselok Standart, Kemerovo, S.F.S.R.	
KHARKOV MINING INSTITUTE, Pr. Lenina 12, Kharkov, Ukrainian S.S.R.	

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Educational Institutions

Name	Activities
Mining & Metallurgy (con.):	
KRIVOY ROG MINING INSTITUTE, Pushkinskaya ul. 36, Krivoy Rog, Ukrainian S.S.R.	
LENINGRAD MINING INSTITUTE VASIL'EVSKIJ OSTROV, 21-ia linia 2, Leningrad, S.F.S.R.	
MAGNITOGORSK MINING AND METALLURGICAL INSTITUTE EZOVKA, Magnitogorsk, S.F.S.R.	
MINING INSTITUTE, Ul. Konnunarov, 158, Tula, S.F.S.R.	
MOSCOW MINING INSTITUTE, Pr. Leninskij 6, Moscow, S.F.S.R.	
NORTH CAUCASUS MINING AND METALLURGICAL INSTITUTE, VTUZGORODOK, ORDZONIKIDZE, North Ossetian (Severo-Osetinskaya), A.S.S.R.	
SIBERIAN S. ORDZHONIKIDZE METALLURGICAL INSTITUTE, Rudokopravaya 49, Stalinsk, Kemerovsk, obl.	
SVERDLOVSK MINING INSTITUTE, Ul. Kuybysheva 30, Sverdlovsk, S.F.S.R.	
ZHDANOV METALLURGICAL INSTITUTE, Vuzovskaya, Zhdanov, Ukrainian S.S.R.	

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Other Coal Research Organizations

Name	Activities
Peat:	
ALL-UNION PEAT INSTITUTE in Leningrad conducts research on peat and has several branches, including:	
MOSCOW PEAT INSTITUTE, B. Vuzovsky per. 3/12, Moscow, S.F.S.R.	
PEAT INSTITUTE, Pr. Lenina 25, Kalinin, S.F.S.R.	
Power Engineering:	
IVANOVO INSTITUTE OF POWER ENGINEERING, Rabfakovskaya ul. 34, Ivanovo, S.F.S.R.	
MOSCOW INSTITUTE OF POWER ENGINEERING, Krasnokazarmennaya ul. 17, Moscow, S.F.S.R.	
Chemical Engineering & Technology:	
DONETZ INDUSTRIAL INSTITUTE, 58 Artema Street, Stalino.	
DENPROPETROVSK INSTITUTE OF CHEMICAL TECHNOLOGY, Lagernaya ul. 2g, Denpropetrovsk, Ukrainian S.S.R.	Analysis, carbonization.
IVANOVO INSTITUTE OF CHEMICAL TECHNOLOGY, Ul. Lenina, 5/10, Ivanovo.	
KAZAN INSTITUTE OF CHEMICAL TECHNOLOGY, Ul. Karla Marxa 68, Kazan.	
KHARKOV INSTITUTE OF CHEMICAL TECHNOLOGY, Krasnoznamennaya 16, Kharkov, Ukrainian S.S.R.	

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Other Coal Research Organizations

Name	Activities
Chemical Engineering & Technology:	
LENINGRAD INSTITUTE OF CHEMICAL TECHNOLOGY, Zagorodny pr. 49, Leningrad.	
MENDELEYEV INSTITUTE OF CHEMICAL TECHNOLOGY, Moscow, S.F.S.R.	Carbonization.
MOSCOW INSTITUTE OF CHEMICAL TECHNOLOGY, Ul. K. Marka 21/4, Moscow, S.F.S.R.	
RUBEZHNAYA INSTITUTE OF CHEMICAL TECHNOLOGY, Rubezhnaya, Voroshilovgrodsk. obl., Ukrainian S.S.R.	
UKRAINIAN SCIENTIFIC RESEARCH INSTITUTE FOR THE CHEMISTRY OF COAL (UKHIN), 7 N. Ostrovsky Street, Kharkov.	Analysis, hydrogenation, carbonization, briquetting.
UKRAINIAN SCIENTIFIC RESEARCH INSTITUTE FOR THE ORGANIZATION AND MECHANIZATION OF MINING CONSTRUCTION, UkrNIIOMSHS, 26 Tevelev Square, Kharkov.	
UKRAINIAN RESEARCH, PLANNING AND CONSTRUCTION INSTITUTE FOR THE ENRICHING AND BRIQUETTING OF COAL, UkrNIIUgleobogashchenie, Lugansk.	

Other Serial Publications of Interest

	Publishers
* DOKLADY AKADEMII NAUK S.S.S.R. (Proceedings of the Academy of Sciences of the U.S.S.R.). OTDEL GEOLOGII. Reserves.	Izdatel'stvo Akademii Nauk, S.S.S.R., Moscow.

* Available in English

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Other Serial Publications of Interest

	Publishers
OTDEL KHIMICHESKOI TEKHNOLOGII. Occasional items in all fields.	Izdatel'stvo Adakemii Nauk, S.S.S.R. Moscow.
* IZVESTIYA AKADEMII NAUK S.S.S.R. (Bulletin of the Academy of Sciences of the U.S.S.R.). SERIYA GEOLOGICHESKAYA. Monthly. Reserves.	Izdatel'stvo Akademii Nauk, S.S.S.R., Moscow.
KHIMIYA I TEKHNOLOGIYA TOPLIVA I MASEL (Chemistry and Technology of Fuels). Monthly. Comprehensive.	Gosudarstvennoe Nauchno-Tekhnicheskoe Izdatel'stvo Neftyanoi I Gorno-Toplivnoi Literatury, Moscow.
* KOKS I KHIMIYA (Coke and Chemistry). Monthly. Carbonization, gasification, hydrogenation.	Gosudarstvennoe Izdatel'stvo Literatury Po Metallurgii, Moscow.
* METALLURG (Metallurgist). Monthly. Carbonization.	Ministerstvo Chernoi Metallurgii, S.S.S.R., Moscow.
OBOGASHCHENIE I BRIKETIROVANIE UGLEY (Coal Preparation and Briquetting). Bimonthly.	Instytut Obogashchenie I Brikeritovanie Ugley, Ugletekhizdat, Moscow.
PODZEMNAYA GASIFIKATSIYA UGLEY (Underground Gasification of Coal). Quarterly. (Beginning in 1960 will be published irregularly, as IZBRANNYE TRUDY (Collected Papers).	Ministerstvo Ugol'noi Promyshlennosti S.S.S.R. and Akademia Nauk S.S.S.R., Moscow.
* STAL (Steel). Monthly. Carbonization (Occasional items).	Gosudarstvennoe Izdatel'stvo Literatury Po Metallurgii, Moscow.
UGOL (Coal). Monthly. Mining, preparation, transportation.	Gosudarstvennoe Nauchno-Tekhnicheskoe Izdatel'stvo Literatury Ugol'noi Promyshlennosti, Moscow.

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Other Serial Publications of Interest

	Publishers
* ZAVODSKAYA LABORATORIYA (Factory Laboratory). Monthly. Occasional items in all fields.	Gosudarstvennoe Izdatel'stvo Literatury Po Metallurgii, Moscow.
* ZHURNAL PRIKLADNOI KHIMII (Journal of Applied Chemistry). Monthly. Occasional items in carbonization, hydrogenation, etc.	Izdatel'stvo Akademii Nauk, S.S.S.R., Moscow.

Note: Tables of contents of the above, translated into English, appear in the "Monthly Index of Russian Accessions," published by the Library of Congress, Washington, D.C.

COAL RESEARCH ORGANIZATIONS

United Kingdom

England

Name	Activities
BRITISH COAL UTILIZATION RESEARCH ASSOCIATION, THE, (Experimental Station and Office), Randalls Road, Leatherhead, Surrey. PUBLICATIONS: Annual Report; Monthly Bulletin; Quarterly Gazette; Information Circulars.	Analysis, constitution, combustion, carbonization, gasification, air pollution, chemicals production.
BRITISH COKE RESEARCH ASSOCIATION, THE, (Office), 74 Grosvenor Street, London, W.1, British Coke Research Centre is now located at Wingerworth, Chesterfield, Derbyshire.	Analysis, constitution, combustion, carbonization, air and stream pollution.

Work in progress at:

1. Northern Coke Research Committee (guides the fundamental research work at King's College, Newcastle upon Tyne).

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United Kingdom (Con.)

England (Con.)

Name	Activities
2. Royal College of Science and Technology, Glasgow.	
3. Research fellowships at Universities of Leeds, Hull, Sheffield, and Durham.	
PUBLICATIONS: Technical papers; Conference proceedings; Bulletins; bibliographies; translations; "Coke Review" (a bibliographical guide to published material of interest to the Coking Industry--semiannual); Special (interim and panel) Reports; Northern Coke Research Committee issues Progress Reports; Annual Report of Council for the year ended December 31, and Annual Director's Report for the year ended December 31 are combined in a composite report, "private & confidential"; "Coke News" (irregular).	
COAL TAR RESEARCH ASSOCIATION, THE, Oxford Road, Gomersal (near Leeds). PUBLICATIONS: Annual Review; List of Reports and Technical Notes; Special Reports; "Review of Coal Tar Technology" (sales publication), semiannual; "The Coal Tar Data Book" (sales publication) and supplements; "Known Components of Coal Tar" and supplements; Technical Reports; Technical Notes (includes translations).	Analysis, constitution, high-temperature carbonization and products (assay), characterization, upgrading, utilization, processing.
ELECTRICITY COUNCIL, THE, Trafalgar Buildings, 1 Charing Cross, London, S.W. 1. PUBLICATIONS: Annual Reports.	Moderate combustion research (high-chlorine coals).

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United Kingdom (Con.)

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Name	Activities
WARREN SPRING LABORATORY, Stevenage. Formerly: THE FUEL RESEARCH STATION, Blackwall Lane, East Greenwich, London, S.E. 10. Greenwich Station replaced by new station at Stevenage. Fuel Research Station at Stevenage will conduct programs only in air pollution and Fischer-Tropsch, see Chemistry and Industry, May 17, 1958, p. 573. PUBLICATIONS: Annual Report; "Bibliography of Published Work of the Fuel Research Organization, 1917-1945 (issued July 1946), 1946-1950 (issued Sept. 1952), 1951-1955" (issued 1957).	Analysis, constitution, preparation, combustion, carbonization, gasification, Fischer-Tropsch (oils) and chemicals from coal.
GAS COUNCIL, THE (offices), 1 Grosvenor Place, London, S.W. 1.	
GAS RESEARCH BOARD, THE, The Abbey, Southend Road, Beckenham, Kent. PUBLICATIONS: GRB (Board) publications; lists of publications; Information Circulars; Annual Reports.	Combustion, gasification.
LOW TEMPERATURE COAL DISTILLERS ASSOCIATION, Buttermilk Lane, Bolsover (near Chesterfield).	Low-temperature carbonization.
MINISTRY OF FUEL AND POWER, THE,	
1. Fuel Efficiency Branch, 7 Millbank, London, S.W. 1. PUBLICATIONS: Bulletins; monthly "Fuel Efficiency News."	Fuel efficiency (combustion).

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Name	Activities
2. Safety in Mines Research and Testing Branch, Portobello Street, Sheffield 1, and Harpur Hill, Buxton, Derbyshire. PUBLICATIONS: Research Reports; SMRE Annual Report; "SMRE Bibliography 1921-52"; "Abstracts of Current Publications," monthly.	Health and safety.
NATIONAL COAL BOARD, THE, Hobart House, Grosvenor Place, London, S.W. 1. PUBLICATIONS: Lists of reports issued by the Coal Research Establishment of the United Kingdom National Coal Board; "Abstracts of Contents of Research Reports Issued in the Year by Stoke Orchard;" "Research Reports" (by Stoke Orchard); "Science Bulletin" (at irregular intervals); annual "Summary of Research Work."	Mining research and safety at Mining Research Establishment, Isleworth; analysis, processing, preparation, carbonization, briquetting, underground gasification, transportation, health and safety, at Coal Research Establishment, Cheltenham. Also extramural research at various universities, including--King's College, Newcastle-on- Tyne (on mining); Universities of Nottingham, Leeds, and Sheffield, and Glasgow Royal College of Science and Technology (all on mining); preparation at University of Leeds, Imperial College (London), University of Nottingham, King's College, and University of Birmingham; carbonization at Universities of Sheffield, Exeter, and Hull, and Borough Polytechnic, etc.; and constitution at University of Hull, Manchester College, and Universities of Exeter and Oxford. (See separate entries.)

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Name	Activities
POWELL DUFFRYN RESEARCH LABORATORIES, LTD., 140, Battersea Park Road, London, S.W. 11.	Analysis, carbonization, chemical derivative research.

Educational Institutions

BOROUGH POLYTECHNIC, London.	Carbonization.
GLASGOW ROYAL COLLEGE OF SCIENCE AND TECHNOLOGY, Glasgow, C. 1.	Mining.
IMPERIAL COLLEGE, Prince Consort Road, South Kensington, London, S.W. 7.	Preparation.
KING'S COLLEGE, Newcastle-on-Tyne, 1.	Mining, preparation.
MANCHESTER COLLEGE OF SCIENCE AND TECHNOLOGY, Sackville Street, Manchester, 1.	Constitution.
NORTHAMPTON COLLEGE OF ADVANCED TECHNOLOGY, St. John Street, London, E.C. 1.	Carbonization.
UNIVERSITY OF BIRMINGHAM, Department of Mining, Edgbaston, Birmingham 15. PUBLICATIONS: University of Birmingham Annual Report; theses.	Analysis, constitution, mining, preparation, carbonization, safety.
UNIVERSITY OF BRISTOL, Bristol 8.	Analysis.
UNIVERSITY OF EXETER, Exeter.	Analysis, constitution.

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Educational Institutions

Name	Activities
UNIVERSITY OF GLASGOW, Glasgow, W. 2.	Analysis.
UNIVERSITY OF HULL, Hull.	Analysis, carbonization.
UNIVERSITY OF LEEDS, Leeds, 2.	Mining, preparation.
UNIVERSITY OF LONDON, Birkbeck College, Malet Street, London, W.C. 1.	Constitution.
UNIVERSITY OF NOTTINGHAM, University Park, Nottingham.	Mining, preparation.
UNIVERSITY OF OXFORD, Oxford.	Constitution.
UNIVERSITY OF SHEFFIELD, Department of Fuel Technology, Sheffield, 10.	Mining, combustion, carbonization.

England

Other Serial Publications of Interest

	Offices
CHEMICAL AGE. Weekly publication. General news items on coal chemicals, gasification, gas purification, carbonization, Fischer-Tropsch, etc. Includes information on international developments.	Bouverie House, 154 Fleet Street, London, E.C. 4.
	Publishers
CHEMISTRY & INDUSTRY. Weekly. Analysis.	Society of Chemical Industry, 14 Belgrave Square, London, S.W. 1.

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United Kingdom (Con.)

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	Publishers
COAL MAGAZINE. Monthly. General items on mining, safety ("family magazine" type).	National Coal Board, Chancery House, Chancery Lane, London, W.C. 2.
	Offices
COKE AND GAS. Monthly. Engineering research papers on low- and high-temperature carbonization, coal chemicals, briquetting, gas production and utilization, and general news items.	33 Tothill Street, Westminster, London, S.W. 1.
	Publishers
COLLIERY ENGINEERING. Monthly. Research papers on mining, health and safety, coal analysis, preparation, and general items (including equipment review).	Tothill Press Ltd., 33 Tothill Street, London, S.W. 1.
	Offices
COLLIERY GUARDIAN. Weekly. General items, statistics.	30-31 Furnival Street, Holborn, London, E.C. 4.
COMBUSTION AND FLAME. Quarterly journal of the Combustion Institute. Research and original publications, also review or recent developments and publications.	Butterworths Scientific Publications Ltd., 88 Kingsway, London, W.C. 2.
	Publishers
FUEL. Quarterly Journal of Fuel Science.	Butterworths Scientific Publications, 88 Kingsway, London, W.C. 2.
FUEL EFFICIENCY. Monthly. Combustion features, storage, general news information, equipment review, etc.	Arrow Press Ltd., 1 Stamford Street, London, S.E. 1.

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	Publishers
GAS JOURNAL. Weekly. Gasification, hydrogenation, and general news.	Walter King, Ltd., 11 Bolt Court, Fleet Street, London, E.C. 4.
GAS TIMES. Monthly. General news items, including gasification developments, gas purification.	Arrow Press Ltd., 157 Hagden Lane, Watford, Herts.
	Offices
GAS WORLD. Weekly.	Bouverie House, 154 Fleet Street, London, E.C. 4.
THE INDUSTRIAL CHEMIST (and Chemical Manufacturer). Monthly.	33 Tothill Street, Westminster, London, S.W. 1.
	Publishers
IRON & COAL TRADES REVIEW. Weekly. General items (mining, preparation, transportation, carbonization, gasification, etc., including review of patents issued and statistics).	Industrial Newspapers, Ltd., John Adam House, 17-19 John Adam Street, Adelphi, London, W.C. 2.
JOURNAL OF APPLIED CHEMISTRY. Monthly. Various research topics. Also abstracts on "Fuel and Fuel Products."	Society of Chemical Industry, 14 Belgrave Square, London, S.W. 1.
JOURNAL OF THE INSTITUTE OF FUEL. Monthly, and "Classified Lists of Papers Published in Journal of the Institute of Fuel, 1926-57." Includes research and original papers on coal analysis, properties, preparation, utilization, combustion, etc.	Institute of Fuel, 18 Devonshire Street, Portland Place, London, W. 1.
JOURNAL OF THE IRON AND STEEL INSTITUTE. Monthly. Research papers and general news items.	The Institute, 4 Grosvenor Gardens, London, S.W. 1.

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	Publishers
THE MINING JOURNAL. Weekly. Review of international developments in mining and mining industries, general news items.	The Mining Journal, Ltd., 15 Wilson Street, London, E.C. 2.
RESEARCH APPLIED IN INDUSTRY. Bimonthly. General news, book reviews, research papers on gasification, combustion, carbonization.	Butterworths Scientific Publications, 88 Kingsway, London, W.C. 2.
TRANSACTIONS (The Institution of Gas Engineers). Annual. Also occasional Bulletins.	The Institute, 17 Grosvenor Place, London, S.W. 1.
TRANSACTIONS (The Institution of Mining Engineers). Monthly.	The Institute, 3 Grosvenor Crescent, London, S.W. 1.

COAL RESEARCH ORGANIZATIONS

United States

Name	Activities
ALABAMA POWER COMPANY, Alabama Power Building, Birmingham 3, Ala.	Carbonization.
ALABAMA STATE MINE EXPERIMENT STATION, Montgomery, Ala.	Analysis, reserves.
BABCOCK & WILCOX COMPANY, 85 Liberty Street, New York 6, N.Y.	Analysis, combustion, preparation.
BATTELLE MEMORIAL INSTITUTE, 505 King Avenue, Columbus 1, Ohio. PUBLICATIONS: "Battelle Technical Review", monthly.	Carbonization, low-temperature tar.

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United States (Con.)

Name	Activities
BITUMINOUS COAL RESEARCH, INC., Meyran Ave. and Forbes Street, Pittsburgh, Pa. (New center located at Monroeville, Pa.) PUBLICATIONS: Aids to Industry, special reports.	Analysis, mining, preparation, carbonization, combustion.
CONSOLIDATION COAL COMPANY, Library, Pa.	Analysis, mining, carbonization, transportation.
DEPARTMENT OF THE INTERIOR, BUREAU OF MINES:	
A. Headquarters: Washington 25, D. C.	Programming and program direction; budgeting; foreign activities; Government fuel-engineering service.
B. Field Stations:	
1. Anthracite Experiment Station, Schuylkill Haven, Pa.	Anthracite investigations--analysis, mining, preparation, gasification, etc.
2. Bituminous Coal and Lignite investigations, as follows:	
Region I:	
Juneau Mining Experiment Station, Juneau, Alaska.	Exploration (local).
Anchorage Experiment Station, Anchorage, Alaska.	Sampling and analysis (routine).
Seattle Coal Research Laboratory, Seattle, Washington.	Preparation.
Region III:	
Denver Coal Research Laboratory, Denver, Colo.	Western coals investigation--analysis, low-temperature carbonization, briquetting.
Grand Forks Lignite Research Laboratory, Grand Forks, N. Dak.	Lignite investigations--analysis, preparation, storage, carbonization, gasification, tar up-grading.

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Name	Activities
B. Field Stations (Con.):	
Region V:	
Pittsburgh Coal Research Center, and Coal-Mining Research Center, Pittsburgh and Bruceton, Pa.	Health and Safety (District B); mining, preparation, analysis and constitution, combustion, carbonization, hydrogenation, sampling, stream pollution.
Morgantown Coal Research Center, Morgantown, W. Va.	Gasification, low-temperature tar.
College Park Metallurgh Research Center, College Park, Md.	Boiler water research and service.
Tuscaloosa Metallurgy Research Center, Tuscaloosa, Ala.	Preparation, carbonization.
PUBLICATIONS: Bureau of Mines (Research) Bulletins; Information Circulars; Reports of Investigations; Lists of Publications; annual Minerals Yearbook (Vol. II, Fuels); Mineral Market Summary; Weekly Coal Trade Review.	
EASTERN GAS AND FUEL ASSOCIATES, 800 E. Diamond Street, Pittsburgh 12, Pa.	Carbonization.
ILLINOIS STATE GEOLOGICAL SURVEY, Urbana, Ill. PUBLICATIONS: Circulars (Research); Bulletins.	Analysis and constitution, reserves, carbonization.
INSTITUTE OF GAS TECHNOLOGY, 3300 S. Federal Street, Chicago 16, Ill. PUBLICATIONS: "Gas Abstracts," monthly; Bulletins.	Gasification.
ISLAND CREEK COAL COMPANY, Holden, W. Va.	High-temperature carbonization.
MELLON INSTITUTE, Pittsburgh, Pa.	Mine water control, carbonization.

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Name	Activities
NORTH AMERICAN COAL CORPORATION, 12800 Shaker Blvd. Cleveland 20, Ohio.	Carbonization.
OHIO GEOLOGICAL SURVEY, Columbus, Ohio.	Analysis, preparation, "reserves", acid mine water control.
OHIO STATE UNIVERSITY, Engineering Experiment Stations, Solid Fuels Research Division, Columbus 10, Ohio.	Analysis and constitution, acid mine water control, preparation, low- and high-temperature carbonization.
PENNSYLVANIA STATE UNIVERSITY, Department of Fuel Technology, College of Mineral Industries, University Park, Pa. PUBLICATIONS: Annual Summary of Research conducted in the Department of Fuel Technology; list of publications.	Analysis, low- and high-temperature carbonization, "reserves", combustion, gasification.
PITTSTON COMPANY, Carbo, Va.	Analysis, mining, preparation, high-temperature carbonization.
UNION CARBIDE CORPORATION, 30 E. 42nd St., New York 17, N.Y.	Analysis and constitution, mining, combustion, carbonization, hydrogenation.
UNITED ENGINEERS AND CONSTRUCTORS, INC., 1401 Arch St., Philadelphia, Pa.	Low-temperature carbonization.
UNIVERSITY OF KENTUCKY, Lexington, Ky.	Water pollution, preparation.
UNIVERSITY OF UTAH, School of Engineering, Salt Lake City, Utah.	Carbonization.
UNIVERSITY OF WYOMING, Natural Resources Research Institute, Laramie, Wyo.	Carbonization (low- and high-temperature).
VIRGINIA POLYTECHNIC INSTITUTE, Blacksburg, Va.	Analysis, reserves, mining, preparation.

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United States (Con.)

Name	Activities
WEST VIRGINIA GEOLOGICAL AND ECONOMIC SURVEY, Morgantown, W. Va.	Analysis, reserves.
WEST VIRGINIA UNIVERSITY ENGINEERING EXPERIMENT STATION, Morgantown, W. Va.	Mining, preparation, carbonization.

Other Serial Publications of Interest

	Publishers
COAL AGE. Monthly. Features mining, preparation; some general and international news and developments. Also includes section on "current coal patents" issued.	McGraw-Hill Publishing Company, Inc., Third and Hunting Park Avenue, Philadelphia 40, Pa.
POWER. Monthly. Features combustion, preparation, transportation.	McGraw-Hill Publishing Company, Inc., 330 West 42nd Street, New York 36, N.Y.
COMBUSTION. Monthly.	Combustion Publishing Company, Inc., 200 Madison Avenue, New York 16, N.Y.
CHEMICAL ABSTRACTS. Biweekly. Comprehensive. Includes abstracts of foreign and domestic literature on all phases of coal research and technology.	American Chemical Society, 1155-16th Street, N.W., Washington 6, D.C.

COAL RESEARCH ORGANIZATIONS

Yugoslavia

Name	Activities
COAL INSTITUTE, Djusina 9, Belgrade.	Mining, geology, analysis, constitution.

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Yugoslavia (Con.)

Name	Activities
HEMISKI INSTITUT "BORIS KIDRIČ" (Boris Kidric Chemical Institute), Hajdrihova 22, Ljubljana, and KOKEREI "BORIS KIDRIČ", Lukavac, M. Tita 77, Tuzla.	Analysis, carbonization, chemicals.
INSTITUT ZA RUDARSTVO (Mining Institute of Sarajevo), Sarajevo.	Mining.
INSTITUT ZA UGALJ (Coal Institute), Admirala Geprata 16, Beograd.	Mining, geology, analysis, constitution, preparation, carbonization.
KNJAŽEVAČKI RUDNICI UGLJA (Knjazevac Coal Mines--Laboratories under construction), Knjaževac.	Analysis, preparation.
RUDARSKO-GEOLOŠKI FAKULTET (Belgrade School of Technology; Faculty of Mining and Geology), Djušina 7, Beograd.	Mining, geology.
RUDNIK VELENJE (Velenje Mine), Velenje.	Low-temperature carbonization (pilot-plant).
UNIVERZA V LJUBLJANI (University of Ljublijana, Faculty of Technology). trg. Revolucije II, Ljubljana.	Analysis, constitution, carbonization.
ZAVOD ZA GEOLOŠKA I GEOFIZIČKA ISTRAŽIVANJA "JOVAN ŽUJOVIĆ" (Institute for Geological and Geophysical Investigation), Karadjordjeva 48, Beograd. PUBLICATIONS: "Vestnik Zavoda za Geološka i Geofizička istraživanja Jovan Žujović," Annual Report.	Geology, mining.

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